PRITCHARDS POND DAM bicked and a CT 00033

NAUGATUCK RIVER BASIN WATERBURY, CONNECTICUT

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PHASE I INSPECTION REPORT NATIONAL DAM INSPECTION REPORT

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1. REPORT NUMBER	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
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4. TITLE (and Subtitle)		5. TYPE OF REPORT & PERIOD COVERED
Pritchards Pond Dam	•	INSPECTION REPORT
Naugatuck River Basin, Waterbury,	Conn.	
NATIONAL PROGRAM FOR INSPECTION OF N	ION-FEDERAL	6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(*)		8. CONTRACT OR GRANT NUMBER(#)
U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DIVISION		•
9. PERFORMING ORGANIZATION NAME AND ADDRESS		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
11. CONTROLLING OFFICE NAME AND ADDRESS		12. REPORT DATE
DEPT. OF THE ARMY, CORPS OF ENGINEER	RS	December 1980
NEW ENGLAND DIVISION, NEDED		13. NUMBER OF PAGES
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18. SUPPLEMENTARY NOTES

Cover program reads: Phase I Inspection Report, National Dam Inspection Program; however, the official title of the program is: National Program for Inspection of Non-Federal Dams; use cover date for date of report.

19. KEY WORDS (Continue on reverse side if necessary and identity by block number)

DAMS, INSPECTION, DAM SAFETY,

Pritchards Pond Dam Naugatuck River Basin Waterbury Conn.

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

Pritchards Pond Dam is an embankment formed by Pearl Lake Road. It has a total length of 249 ft. and a maximum height of 8.7 ft. The exact age of the dam is not known but it is believed to be at least 100 yrs. old. There is a no longer functioning outle box located on the right side of the dam that presumably controlled a 6-inch cast iton outlet pipe on the downstream side of the dam. There is a bar screen and 4 ft. wide overflow spillway located in the center of the dam. This spillway drops down to a 15-inch pipe which outlets at the downstream side of the dam. The downstream side has a stone masonry wall along approx. 90 ft. of the dam's length, with varying heights.

Philip W. Genovese and Associates, Inc. Consulting and Design Engineers

January 6, 1981

Re: Pritchards Pond Dam
Waterbury, Connecticut
Contract #DACW-33-81-C0017

The Department of the Army New England Division Corps of Engineers 424 Trapelo Road Waltham, Massachusetts 02154

Attention: Mr. E. P. Gould, Project Management Division

Gentlemen:

We have inspected Pritchards Pond Dam and conducted a field survey. Our dam failure analysis concludes that the dam should be reclassified as having a low hazard potential.

We are including with this letter a short report substantiating our conclusions.

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Very truly yours,

PHILIP W. GENOVESE & ASSOCIATES, INC.

Pratap Z. Patel, P.E.

Project Manager

PZP/LH

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DESCRIPTION

Name of Dam : Pritchards Pond Dam

Identification Number: CT 00033

Town : Waterbury

County and State : New Haven County, Connecticut

Stream : Hopeville Pond Brook

Owner: Risdon Manufacturing Company, 2100 South Main Street,

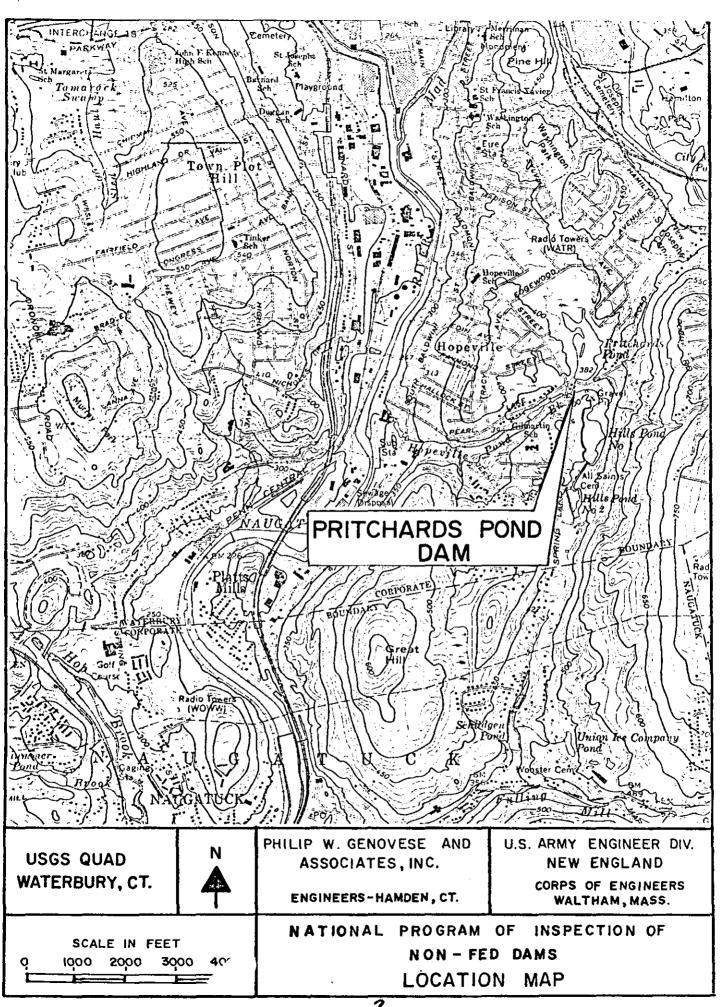
Waterbury, Connecticut

Date of Inspection: December 3, 1980

Pritchards Pond Dam is an embankment dam formed by Pearl Lake Road. It has a total length of 249 feet and a maximum height of 8.7 feet. The exact age of the dam is not known but it is believed to be at least 100 years old. There is a no longer functioning outlet box located on the right side of the dam that presumably controlled a 6-inch cast iron outlet pipe on the downstream side of the dam. There is a bar screen and 4 foot wide overflow spillway located in the center of the dam. This spillway drops down to a 15-inch pipe which outlets at the downstream side of the dam. The downstream side has a stone masonry wall along approximately 90 feet of the dam's length, with varying heights.

The dam is owned and operated by the Risdon Manufæturing Company, 2100 South Main Street, Waterbury, Connecticut. Although it once augmented the plant's water supply, it no longer is used for that purpose. Any present uses are strictly recreational.

The dam appears in good shape but requires some work. Specifically, this would include developing a functioning outlet works, spillway maintenance and removal of trees on or close to the dam.





U.S. ARMY ENGINEER DIV.

NEW ENGLAND

CORPS OF ENGINEERS

WALTHAM, MASS.

PHILIP W. GENOVESE AND ASSOCIATES, INC. ENGINEERS-HAMDEN, CT.

NATIONAL PROGRAM OF INSPECTION OF ON-FED DAMS

OVERVIEW PHOTO

DECEMBER, 1980

PRITCHARDS POND DAM

HOPEVILLE POND BROOK

WATERBURY,

CONNECTICUT

HYDROLOGIC/HYDRAULIC EVALUATION

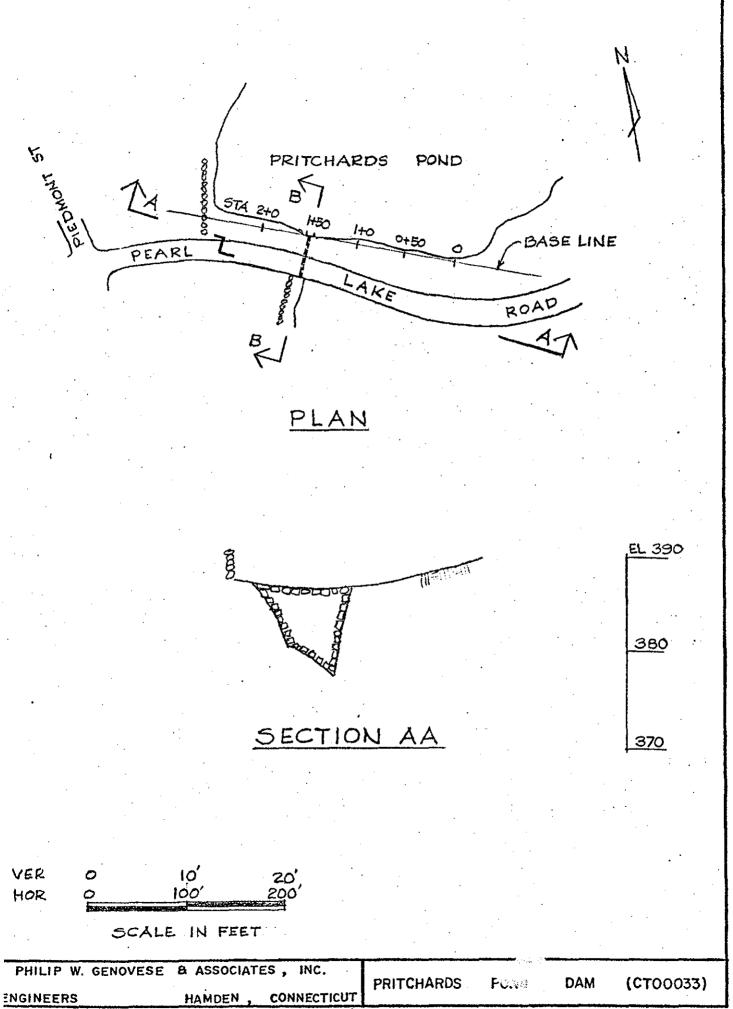
Pritchards Pond Dam has a tributary watershed of 0.25 square miles. At the spillway crest it has a water surface area of 11 acres and a storage capacity of 14 acre-feet. The storage capacity at the top of the dam is 115 acre-feet.

The pipe spillway has a capacity of 16 cfs with the water at the top of the dam. The maximum height of the dam is 8.7 feet. In accordance with the Corps of Engineers' Recommended Guidelines for Safety Inspection of Dams, Pritchards Pond Dam is a small dam based on storage capacity.

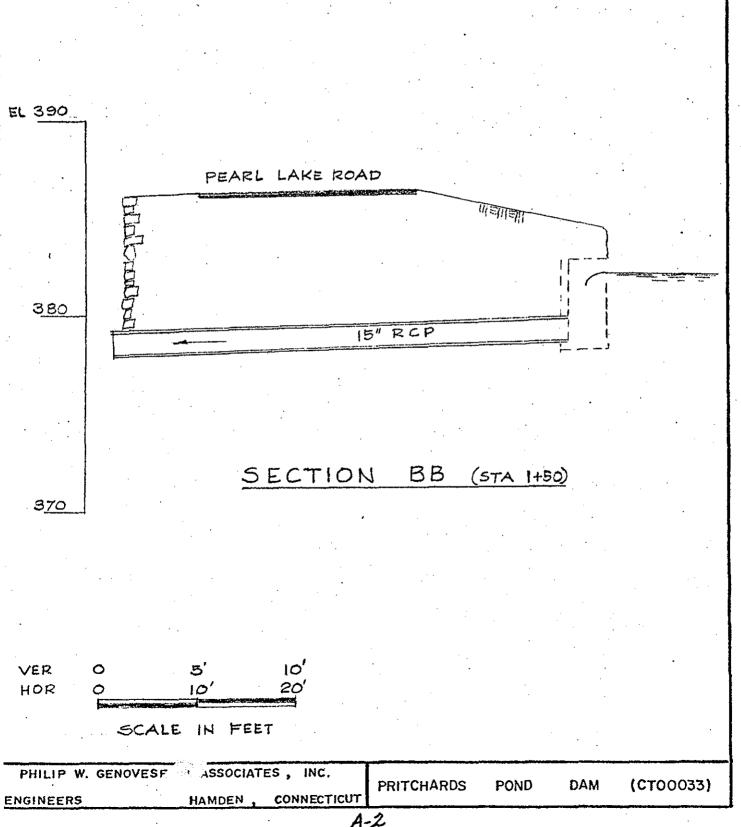
A dam breach analysis was made using the Corps of Engineers' "Rule of Thumb" guidance for estimating downstream dam failure hydrographs. The peak discharge from a dam breach, with the water level at the top of dam (elev. 386.7), was calculated to be 1200 cfs. The flood waters were routed for a distance of 3270 feet downstream.

The results of this analysis indicated that the loss of life from a failure of Pritchards Pond Dam is unlikely and therefore warrants a "low" hazard classification. Appendix D provides the detailed analysis to justify this conclusion.

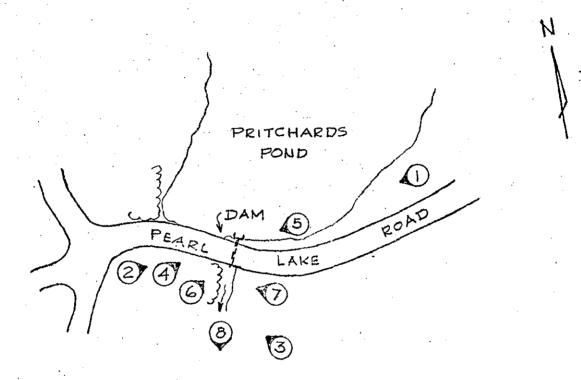
APPENDIX A
SITE PLAN



A-,



APPENDIX B SITE PHOTOGRAPHS





REFERS TO PHOTO NUMBER, LOCATION AND DIRECTION

U.S. ARMY ENGINEER DIV.

NEW ENGLAND

CORPS OF ENGINEERS

WALTHAM, MASS.

PHILIP W. GENOVESE AND ASSOCIATES, INC. ENGINEERS-HAMDEN, CT.

NATIONAL PROGRAM OF INSPECTION OF NON-FED DAMS

PHOTO LOCATION PLAN

PRITCHARDS POND DAM

HOPEVILLE POND BROOK

WATERBURY,

CONNECTICUT



1. Left abutment, looking along crest.

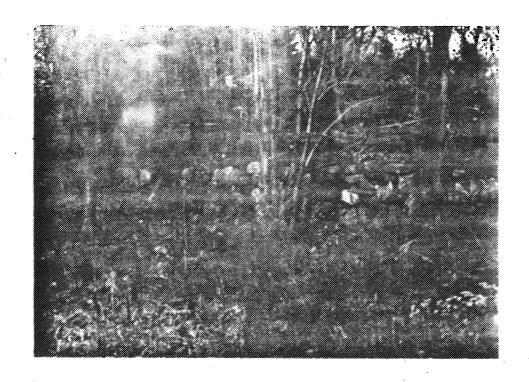


2. Right abutment, looking along downstream face.

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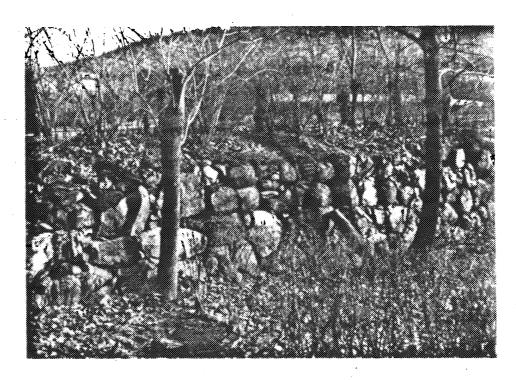
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ENGINEERS HAMDEN, CONNECTICUT



3. Downstream face of dam, looking towards right side of spillway channel.

Note 14" diameter tree in right side of photo and clump of 5 trees in center of photo.



4. Sta 2+10 looking at downstream face of dam, blue flagging at Sta 2+00, tree stump on left, 8" diameter, tree on right of photo ll" diameter.

D-3

PHILIP W. GENOVESE & ASSOCIATES, INC.

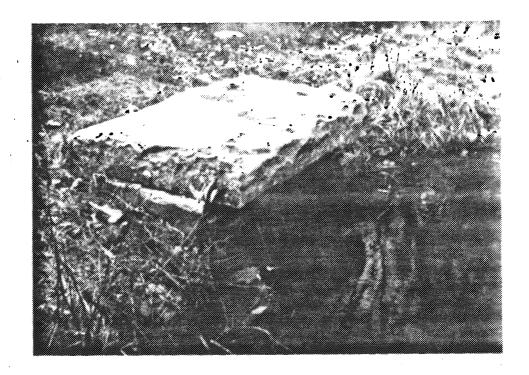
ENGINEERS HAMDEN, CONNECTICUT

PRITCHARDS

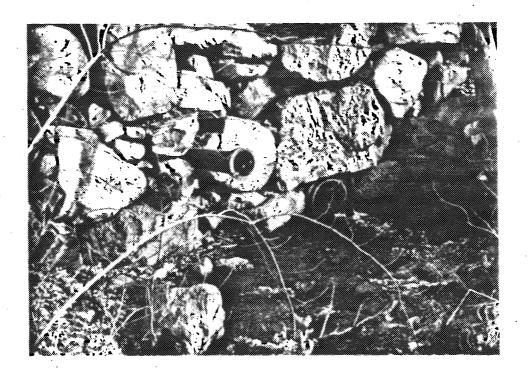
POND

DAM

(CTOO033)



5. Spillway intake structure with trash rack.

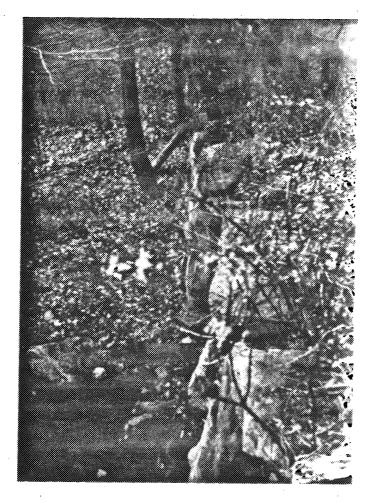


6. Spillway and outlet discharge pipes.

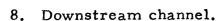
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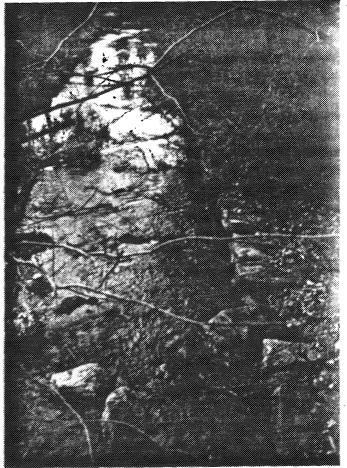
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7. Downstream face of dam looking towards right downstream bank.





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ENGINEERS HAMDEN, CONNECTICUT

PRITCHARDS POND DAM

(CTO0033)

APPENDIX C

INVENTORY FORM

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APPENDIX D HYDROLOGIC/HYDRAULIC CALCULATIONS

SEALUATION OF HYDRAULIC/HYDROLOGIC FEATURES

The Pritchards Pond Dam has a tributary watershed of 0.25 sq.mi and a water surface area and storage capacity at spillway level of 11 Acres and 14 Ac.Ft respectively. The maximum impoundment to the top of dam (El. 386.7 NGVD) is estimated to be 115 Ac.Ft.

The pipe spillway with drop inlet has an estimated capacity of 16 CFS with pool at top of the dam. In accordance with Table 1 of the Corps of Engineers Recommended Guidelines for Safety Inspection of Dams, the Pritchards Pond Dam is classified as "Small" in size based on storage capacity.

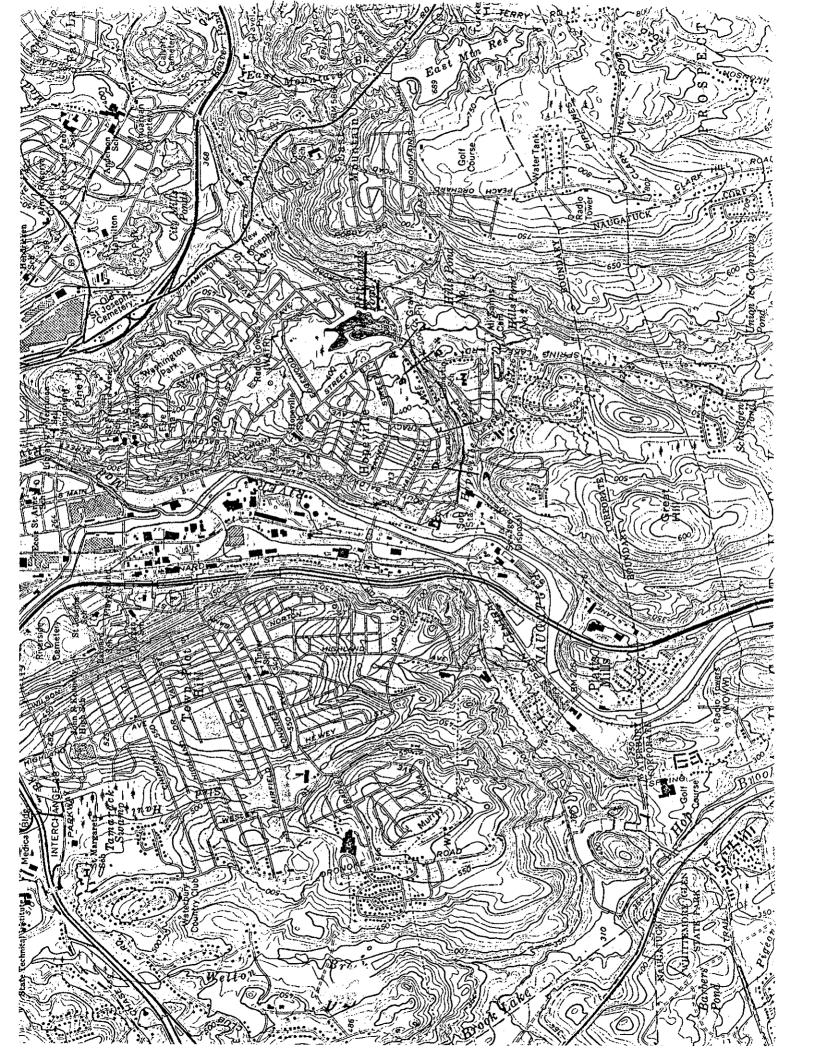
Utilizing the Corps of Engineers April 1978 "Rule of Thumb Guidance for Estimating Downstream Failure Hydrographs", the peak failure outflow due to dam breach is estimated to be 1200 cfs with an estimated flood depth of 3.8 Ft. immediately downstream of the dam. The flood routing was performed for peak failure outflow with pool at top of dam.

The estimated peak flow rates and peak flood depths at four sections downstream of the dam resulting from a dam failure are:

D/S Section	Flow	Flood Depth	Velocity
(Ft. from Dam)	(CFS)	(FT)	(fps)
At Dam	1200	3.8	_
170	1185	3.4	3.5
720	1148	6.2	4.1
2320	1032	4.1	4.25
3270	1021	3.2	3.9

Based on relative elevations of the houses in the vicinity of the Brook, none of them are likely to be flooded during dam failure except one house on Spring Lake Rd, located 3'4" above Brook bed which may have minor flooding. In addition, the culvert on Spring Lake Rd is inadequate to pass the peak flow of 1185 cfs.

Thus, loss of life from a failure of Pritchards Pond Dam is considered unlikely. Therefore, the dam is classified as "Low" hazard potential. This conclusion is based upon hydraulic/hydrologic analysis included in Appendix D.



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PROJECT NON FEDERAL DAM INSPECTION PROJECT NO. 80-13-	
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PRITCHARDS POND DAM CHECKED BY 5/2	DATE 12/17/80
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FAILURE HYDROGRAPHS	
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WATER DEPTH AT TIME OF FAILURE 1/0 = 8	.7 FT WITH
POOL AT TOP OF	1
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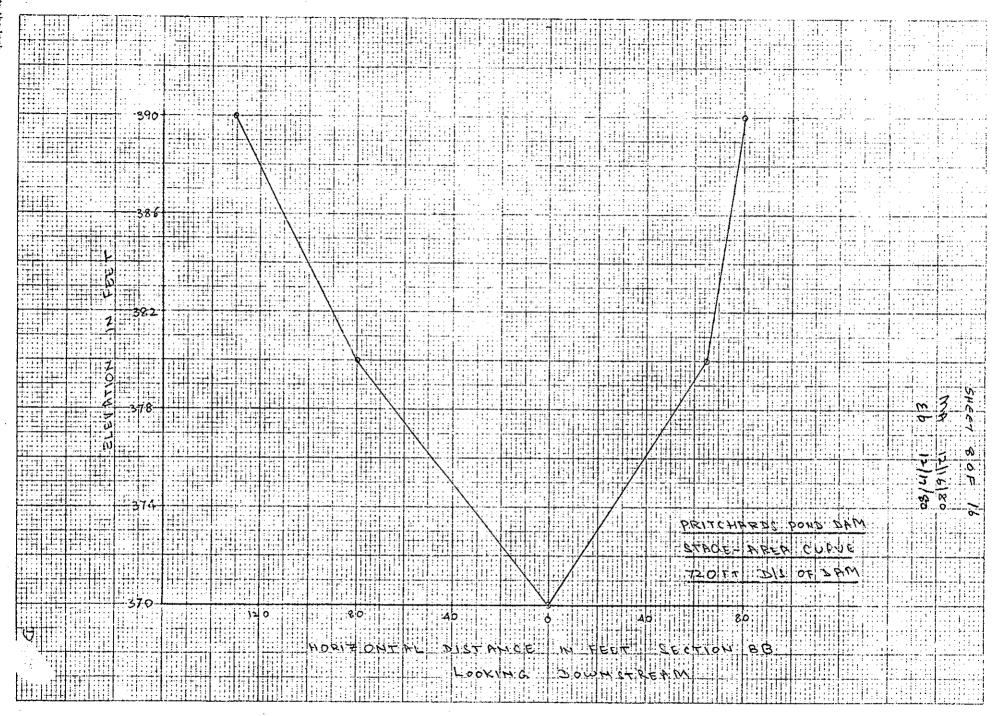
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FR Fo Vc	= 1.94 ELVN 370 372 374 376 378 CM STA R Q P, LUME OF	A Sq. F7 29 116 261 464 6.E-AREA A =1185 CFS, REACH VI P2 = QPI = 1185	$\begin{array}{c} p \\ 29.3 \\ 58.6 \\ 87.9 \\ 117.1 \\ ND & S7A6 \\ ELVN = \\ \frac{550 \times 20}{43.56} \\ \left(1 - \frac{V_1}{5}\right) \\ 5 & \left(1 - \frac{3.1}{11}\right) \end{array}$	R 0.99 1.98 2.97 3.96 6-DISCH 376.3 A 90 = 3	P213 P2-13 P	Q cFS 56 356 1051 2263 URVES, 290 99,5
FR Fo Vc	= 1.94 ELVN 370 372 374 376 378 CM STA R Q P, LUME OF	A Sq. F7 29 116 261 464 6.E-AREA A =1185 CFS, REACH VI P2 = QPI = 1185	$\begin{array}{c} p \\ 29.3 \\ 58.6 \\ 87.9 \\ 117.1 \\ ND & S7A6 \\ ELVN = \\ \frac{550 \times 20}{43.56} \\ \left(1 - \frac{V_1}{5}\right) \\ 5 & \left(1 - \frac{3.1}{11}\right) \end{array}$	R 0.99 1.98 2.97 3.96 6-DISCH 376.3 A 90 = 3	P213 P2-13 P	Q cFS 56 356 1051 2263 URVES, 290 99,5
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PROJECT NON FEDERAL NEW ENGLAND	•		80-13-11 SHEET // OF /6
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FOR PEAK FAILURE OUTFL DISCHARGE CURVE GI	OW QP, =10 VES ELVN	32 CFS = 326.	, THE STAGE
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FOR PEAK FAILURE OUTFLE DISCHARGE CURVE GI FOR A REACH LENGTH OF VOLUME OF REACH V	$OW QP_1 = 10$ $VES FLVN$ $= 200FT_1$ $= 200 \times 27$ $= 43.560$	32 CFS = 326. = 270 = 270	, THE STAGE 18 AND AREA 59.FT.
FOR PEAK FAILURE OUTFLE DISCHARGE CURVE GI FOR A REACH LENGTH OF VOLUME OF REACH V	$OW QP_1 = 10$ $VES FLVN$ $= 200FT_1$ $= 200 \times 27$ $= 43.560$	32 CFS = 326. = 270 = 270	, THE STAGE 18 AND AREA 53.F7.
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FOR PEAK FAILURE OUTFLE DISCHARGE CURVE GI FOR A REACH LENGTH OF VOLUME OF REACH VI TRIAL QP2 = QP, (1	$OW QP_{i} = 10$ $VES FLVN$ $= 200 FT_{i}$ $= \frac{200 \times 27}{43.560}$ $= \frac{V_{i}}{5}$	32 CFS = 326. = 270 = 270	THE STAGE 18 AND AREA SG.FT. 1.2 AC.FT.
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APPENDIX E

VISUAL CHECK LIST WITH COMMENTS

VISUAL INSPECTION CHECK LIST PARTY ORGANIZATION

PROJECT PRITCHARD'S POND DAM		DATE December	3, 1980
		TIME 8-10:30 a.r	n.
		WEATHER Overcas	t, 33°F.
		W.S. ELEV.	u.s. dn.s
PARTY:			
1. Walt Gancarz - Genovese	6	· • • • • • • • • • • • • • • • • • • •	
2. Mark Ballou - Genovese	7		
3. Murali Atluru - DTC			
4. Richard F. Murdock - GEI			· · · · · · · · · · · · · · · · · · ·
5. Richard W. Turnbull - GEI	• •		
PROJECT FEATURE		INSPECTED BY	REMARKS
1. Embankment		All	
2. Outlet works		All	
3. Spillway		A11	
4.	•		
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PERIODIC INSPECTION CHECK LIST

PROJECT PRITCHARD'S POND DAM	DATE December 3, 1980
PROJECT FEATURE Dam Embankment	NAME
DISCIPLINE Geotechnical, Civil/Str.	NAME WG, RFM, RWT
AREA EVALUATED	CONDITIONS
DAM ÉMBANKMENT	Earth embankment with downstream cut
Crest Elevation	stone masonry wall. 386.7
Current Pool Elevation	382.5
Maximum Impoundment to Date	
Surface Cracks	None observed.
Pavement Condition	Asphalt pavement moderately cracked.
Movement or Settlement of Crest	Minor undulations of crest surface.
Lateral Movement	None observed.
Vertical Alignment	Good.
Horizontal Alignment	Good.
Condition at Abutment and at Concrete Structures	Two trees near right abutment (12 in. and 36 in. diameter).
Indications of Movement of Structural Items on Slopes	None observed.
Trespassing on Slopes	Footpath and scattered trash on upstream
Sloughing or Erosion of Slopes or Abutments	slope. Minor sloughs and erosion gullies on upstream slope of embankment.
Rock Slope Protection - Riprap Failures	No slope protection.
Unusual Movement or Cracking at or near Toes	None observed.
Unusual Embankment or Downstream Seepage	Wet area and minor seepage observed or left floodplain about 50 ft. downstream of embankment. Minor seepage from ston
Piping or Boils	masonry wall, adjacent to outlet pipe. None observed.
Foundation Drainage Features	None observed.
Toe Drains	None observed.
strumentation System E-2	None.
Vegetation	Scattered trees, light brush and grass on crest and upstream slope.

PERIODIC INSPECTION CHECK LIST PROJECT PRITCHARD'S POND DAM DATE December 3, 1980 PROJECT FEATURE Dike Embankment NAME DISCIPLINE NAME AREA EVALUATED CONDITION DIKE EMBANKMENT None. Crest Elevation Current Pool Elevation Maximum Impoundment to Date Surface Cracks Pavement Condition Movement or Settlement of Crest Lateral Movement Vertical Alignment Horizontal Alignment Condition at Abutment and at Concrete Structures Indications of Movement of Structural Items on Slopes Trespassing on Slopes Sloughing or Erosion of Slopes or Abutments Rock Slope Protection - Riprap Failures Unusual Movement or Cracking at or near Toes Unusual Embankment or Downstream Seepage Piping or Boils Foundation Drainage Features Toe Drains Instrumentation System

E-3

Vegetation

PERIODIC INSPEC	TION CHECK LIST
PROJECT PRITCHARD'S POND DAM	DATE December 3, 1980
PROJECT FEATURE Outlet Works-Intake	name
DISCIPLINE Civil/Str.	NAME WG
AREA EVALUATED	CONDITION
OUTLET WORKS - INTAKE CHANNEL AND INTAKE STRUCTURE	
a. Approach Channe	Not visible (under water).
Slope Conditions	
Bottom Conditions	
Rock Slides or Falls	
Log Boom Debris	
Condition of Concrete Lining	
Drains or Weep Holes	
b. Intake Structure	
Condition of Concrete	Descri
Stop logs and Slots	Poor. Clogged with debris - no longer working
boop logs and brook	Clogged with debris - no longer working
	E-4

Periodic inspec	TION CHECK LIST
PROJECT PRITCHARD'S POND DAM	DATE December 3, 1980
PROJECT FEATURE Outlet Works - Control	•
DISCIPLINE	NAME
AREA EVALUATED	CONDITION
OUTLET WORKS - CONTROL TOWER	None observed.
a. Concrete and Structural	
General Condition	
Condition of Joints	
Spalling .	
Visible Reinforcing	
Rusting or Staining of Concrete	
Any Seepage or Efflorescence	
Joint Alignment	
Unusual Scepage or Leaks in Gate Chamber	
Cracks	
Rusting or Corrosion of Steel	
b. Mechanical and Electrical	
Air Vents	
. Float Wells	
Crane Hoist	
Elevator	
Hydraulic System	
Service Gates	
Emergency Gates	
Lightning Protection System	•
Emergency Power System	
Wiring and Lighting System	F-5

PERIODIC INSPECTION CHECK LIST PROJECT PRITCHARD'S POND DAM DATE December 3, 1980 PROJECT FEATURE Outlet Works - Conduit NAME DISCIPLINE Civil/Str. WME WG

AREA EVALUATED

CONDITION

OUTLET WORKS - TRANSITION AND CONDUCT

General Condition of Concrete
Rust or Staining on Concrete
Spalling

Erosion or Cavitation
Cracking

Alignment of Monoliths

Alignment of Joints

Numbering of Monoliths

6" Cast Iron Pipe protruding from d/s face of dam.

PERIODIC INSPECTION CHECK LIST PROJECT PRITCHARD'S POND DAM DATE December 3, 1980 PROJECT FEATURE Outlet Works - Str./Channel NAME DISCIPLINE NAME REM. RWT. Geotechnical CONDITION AREA EVALUATED OUTLET WORKS - OUTLET STRUCTURE AND OUTLET CHANNEL General Condition of Concrete Rust or Staining Spalling Erosion or Cavitation Visible Reinforcing Any Seepage or Efflorescence Condition at Joints Drain holes None observed. Channel Banks lined with stone wall. Loose Rock or Trees Overhanging Parts of stone wall bank liner are loose Channel Condition of Discharge Channel Partially blocked with cluster of 5 tree: joined at base (6"-8" diameter), and by several boulders which have fallen off left bank wall into discharge channel

GEI

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PERIODIC INSPECT	PION CHECK LIST
PROJECT PRITCHARD'S POND DAM	DATE December 3, 1980
PROJECT FEATURE Outlet Works- Weir	N/ME:
DISCIPLINE Civil/Str, Hydraulic	NAME WG, MA
AREA EVALUATED	CONDITION
OUTLET WORKS - SPILLMAY WEIR, APPROACH AND DISCHARGE CHANNELS	
a. Approach Channel	Not Visible (under water)
. General Condition	
Loose Rock Overharding Channel	
Trees Overhanging Channel	
Floor of Approach Channel	
b. Weir and Training Walls	
- General Condition of Concrete	Good. trash rack is clogged with debri
Rust or Staining	
Spalling	
Any Visible Reinforcing	
Any Seepage or Efflorescence	
Drain Holes	
c. Discharge Channel	
General Condition	Good
Loose Rock Overhanging Channel	Parts of stone wall are loose
Trees Overhanging Channel	Yes - 5 trees immediately d/s of outlet
Floor of Channel	Clear (except for trees)
Other Obstructions	No
·.	

PERIODIC INSPEC	PION CHECK LIST
PROJECT PRITCHARD'S POND DAM	DATE December 3, 1980
PROJECT FEATURE Outlet works - Service 1	Bridge NAME
DISCIPLINE	NAME
AREA EVALUATED	CONDITION
OUTLET WORKS - SERVICE BRIDGE	None observed.
a. Super Structure	
Bearings	
Anchor Bolts	
Bridge Seat	
Longitudinal Members	
Under Side of Deck	
Secondary Bracing	
Deck	
Drainage System	
Railings	
Expansion Joints	
Paint	
1. Abutment & Piers	
General Condition of Concrete	
Alignment of Abutment	
Approach to Bridge	
Condition of Seat & Backwall	